

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Seema SUD, et al.

Art Unit: 2611

App. Serial No.: 10/689,765

Examiner: Dac V. Ha

Patent No.: 7,415,065

Filing date: October 22, 2003

Issue date: August 19, 2008

For: ADAPTIVE FILTERING IN THE PRESENCE OF MULTIPATH

REQUEST FOR CERTIFICATE OF CORRECTION

U.S. Patent and Trademark Office
Customer Service Window
Attn: Certificate of Correction Branch
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

The undersigned requests that a Certificate of Correction be issued for the above-identified patent as indicated on the attached Form PTO/SB/44 (04-05).

This request is being made in order to correct the errors in the Claim section of the patent.

Since this Request for Certificate of Correction is being filed due to an error by the U.S. Patent and Trademark Office, no fees are believed to be necessary. However, the Commissioner is hereby authorized to charge any additional fees which may be required, or to credit any overpayment, to Deposit Account No. 50-4402.

Respectfully submitted,

Date: October 8, 2008

By: /George T. Marcou, Reg. No. 33,014/
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,415,065

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APPLICATION NO. : 10/689,765

ISSUE DATE : August 19, 2008

INVENTOR(S) : Seema SUD and Wilbur MYRICK

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

IN THE CLAIMS:

In Column 8, please replace Claim 1 with:

1. A method for adaptive filtering a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients $\hat{\frac{A}{C}}$, such that $\hat{\frac{A}{C}} = E \left[\hat{\frac{A}{r}} \hat{\frac{A}{s}}^H \right]^{-1} \hat{\frac{A}{s}}_{desired}$, where

E is the expected value operator,

$\hat{\frac{A}{r}}$ is the received signal,

$\hat{\frac{A}{s}}_{desired}$ is the modified steering vector of the desired signal, and

$\hat{\frac{A}{s}}_{desired} = \frac{A}{s}_{desired} * \frac{A}{h}$, where

$\frac{A}{h} = [h_1, h_2, \dots, h_L]$ is a discrete time estimate of the effect of multipath on the channel and L is the delay spread of the channel for the estimate.

In Column 9, please replace Claim 5 with:

5. A computer program product for adaptive filtering a signal received over a channel subjected to multipath effects, the computer program product comprising:

a computer-readable medium;

at least one program module stored on the medium, the at least one program module operative to:

determining filter coefficients $\hat{\frac{A}{C}}$, such that $\hat{\frac{A}{C}} = E \left[\hat{\frac{A}{r}} \hat{\frac{A}{s}}^H \right]^{-1} \hat{\frac{A}{s}}_{desired}$, where

E is the expected value operator,

$\hat{\frac{A}{r}}$ is the received signal,

$\hat{\frac{A}{s}}_{desired}$ is the modified steering vector of the desired signal, and

$\hat{\frac{A}{s}}_{desired} = \frac{A}{s}_{desired} * \frac{A}{h}$, where

$\frac{A}{h} = [h_1, h_2, \dots, h_L]$ is a discrete time estimate of the effect of multipath on the channel and L is the delay spread of the channel for the estimate.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

King & Spalding LLP
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Washington, DC 20006

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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ISSUE DATE : August 19, 2008

INVENTOR(S) : Seema SUD and Wilbur MYRICK

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

IN THE CLAIMS (CONT'D):

In Column 10, Line 22, please change "onto the nullspace of the correlation direction vector of" to -- onto the nullspace of the correlation direction vector of --

In Column 10, please replace Claim 9 with:

9. A method for adaptive filtering in a Multistage Wiener Filter (MWF) of a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients $\frac{\hat{A}}{C}$, such that $\frac{\hat{A}}{C} = E[\hat{\hat{r}}\hat{r}^H]^{-1} \hat{S}$ desired, where

\hat{E} is the expected value operator,

$\frac{\hat{A}}{r}$ is the received signal,

$\frac{\hat{A}}{s}$ desired is the modified steering vector of the desired signal, and

$\frac{\hat{A}}{s}$ desired = $\frac{1}{s}$ desired * $\frac{\hat{A}}{B}$, where

$\frac{\hat{A}}{B} = [h_1, h_2, \dots, h_L]$ is a discrete time estimate of the effect of multipath on the channel and L is the delay spread of the channel for the estimate.

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